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Message Text

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C O N F I D E N T I A L STATE 139868

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUBJECT:COCOM LIST REVIEW - IL 1560-62 INDUCTIVE AND CAPAC-
ITIVE ELEMENTS/TANTALUM CAPACITORS

REF: COCOM DOC REV (74) 1560/3: 1562/3

1. DEL MAY TAKE THE FOLLOWING POSITION:
(A) DEL MAY CONCUR IN THE COMBINATION OF THE TWO ITEMS, BUT
IN RECOGNITION OF THE CHANGE, US AUTHORITIES BELIEVE THAT
THE APPROPRIATE HEADING SHOULD BE "PASSIVE COMPONENTS AS
FOLLOWS:"
(B) DEL SHOULD PRESENT"(A) MONOLITHIC CERAMIC CAPACITORS
RATED FOR OPERATION OVER THE WHOLE RANGE OF AMBIENT TEMPERA-
TURES FROM BELOW MINUS 45DEGREES CELSIUS TO ABOVE PLUS 100
DEGREES CELSIUS."
(C) DEL SHOULD PRESENT"(B) TANTALUM ELECTROLYTIC CAPACITOR
S RATED FOR OPERATION AT AMBIENT TEMPERATURES EXCEEDING 125
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DEGREES CELSIUS, EXCEPT SINTERED ELECTROLYTIC TYPES HAVING

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A CASING MADE OF EPOXY RESIN OR WHICH ARE SEALED OR COATED
WITH EPOXY RESIN."
(D) DEL SHOULD PRESENT "(C) OTHER CAPACITORS RATED FOR OPER-
ATION AT AMBIENT TEMPERATURES BELOW MINUS 50 DEGREES CELSIUS
A OR ABOVE PLUS 200 DEGREES CELSIUS."
(E) DEL SHOULD PRESENT "NOTE: GOVERNMENTS MAY PERMIT, AS

ADMINISTRATIVE EXCEPTIONS, THE SHIPMENT OF MONOLITHIC CERA-
MIC CAPACITORS EMBARGOED BY THIS ITEM THAT ARE RATED FOR
OPERATION AT AMBIENT TEMPERATURES NOT EXCEEDING 125DEGREES
CELSIUS FOR USE IN CIVIL EQUIPMENT APPLICATIONS"

2. MONOLITHIC CAPACITORS ARE CERAMIC CAPACITORS WITH MORE
THAN ONE CERAMIC LAYER, I.E., MULTIPLE LAYERED CERAMIC
CAPACITORS. (THESE USUALLY CONSIST OF SEVERAL INTERWOVEN
LAYERS OF CERAMIC AND METAL.) THE EFFECT OF THIS PROPOSAL
IS TO FREE FROM EMBARGO COMMERCIAL GLASS ENAMEL, CERAMIC
GLASS, CERAMIC, MICA, PAPER AND METALLIZED PAPER CAPACITO-
RS PRESENTLY EMBARGOED BY 1560 (A). IN ADDITION, IT WOU
LD FREE ALL TRANSFORMERS, CHOKES, RELAYS, ETC. INTELLIGEN
CE INDIACTES THAT NONE OF THE COMMUNIST COUNTRIES PRODUCE
MONOLITHIC CERAMIC CAPACITORS WHICH WERE DEVELOPED FOR MIL-
ITARY PURPOSES AND ARE COSTLY AND CONSEQUENTLY NOT USED AS
MUCH IN CIVIL AS IN MILITARY APPLICATIONS. MANUFACTURE RE-
QUIRES UNIQUE CONSTRUCTION TECHNOLOGY NOT IN BLOC POSSESS-
ION AND IS IMPORTANT BECAUSE IT YIELDS HIGHER CAPACITANCE
IN SMALLER SIZE.

3.(B) IS IDENTICAL TO THE UK AND JAPANESE PROPOSALS RE TAN-
TALUM CAPACITORS AND USE OF THE WORD "RATED" RESOLVES THE
PRINCIPAL DIFFICULTY WHICH THE COMMITTEE HAS HAD WITH THE
EXISTING DEFINITION. COVERAGE IS DIRECTED TOWARD TECHNOLOGY
CONTROL WHILE ALLOWING FREE SHIPMENT OF DEVICES.
4. (C) SIMILARLY ACCORDS WITH THE UK/JAPANESE COMPROMISE
PROPOSALS ON THESE ITEMS. IT ESTABLISHES A LOWER THRESHODL
WHICH IS BELIEVED TO BE NECESSARY TO DIFFERENTIATE COM-
MERCIAL CAPACITORS FROM THOSE WHICH ARE SPECIALLY DESIGNED
AND ARE IN THE AREA OF MILITARY SPECIFICATIONS. (NOTE: DEL
IS AUTHORIZED A FALLBACK TO MINUS 55 DEGREES CELSIUS,WHICH
IS THE USUAL STANDARD, AS NECESSARY.)
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4. RECOGNIZE THAT THE OTHER DELS WILL REACT NEGATIVELY TO
A REFORMULATION OF WHAT THEY HAVE ALREADY PRESENTED BUT THE
ALTERNATIVE OF RESPONDING TO PROPOSALS SPREAD OVER THREE
ITEMS WITHOUT PRESENCE OF TECHNICAL ADVISORS MIGHT HAVE
BEEN OVERWHELMING. DEL SHOULD NOTE THAT WE BELIEVE THE UK
PURPOSE IN PLACING A TEMPERATURE PARAMETER IN ITS (B) OF
1560/2 IS MET BY OUR ACCEPTANCE OF THE TECHNICAL WORKING

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GROUP DEFINITION OF POTENTIOMETERS IN L568 (G). KISSINGER

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